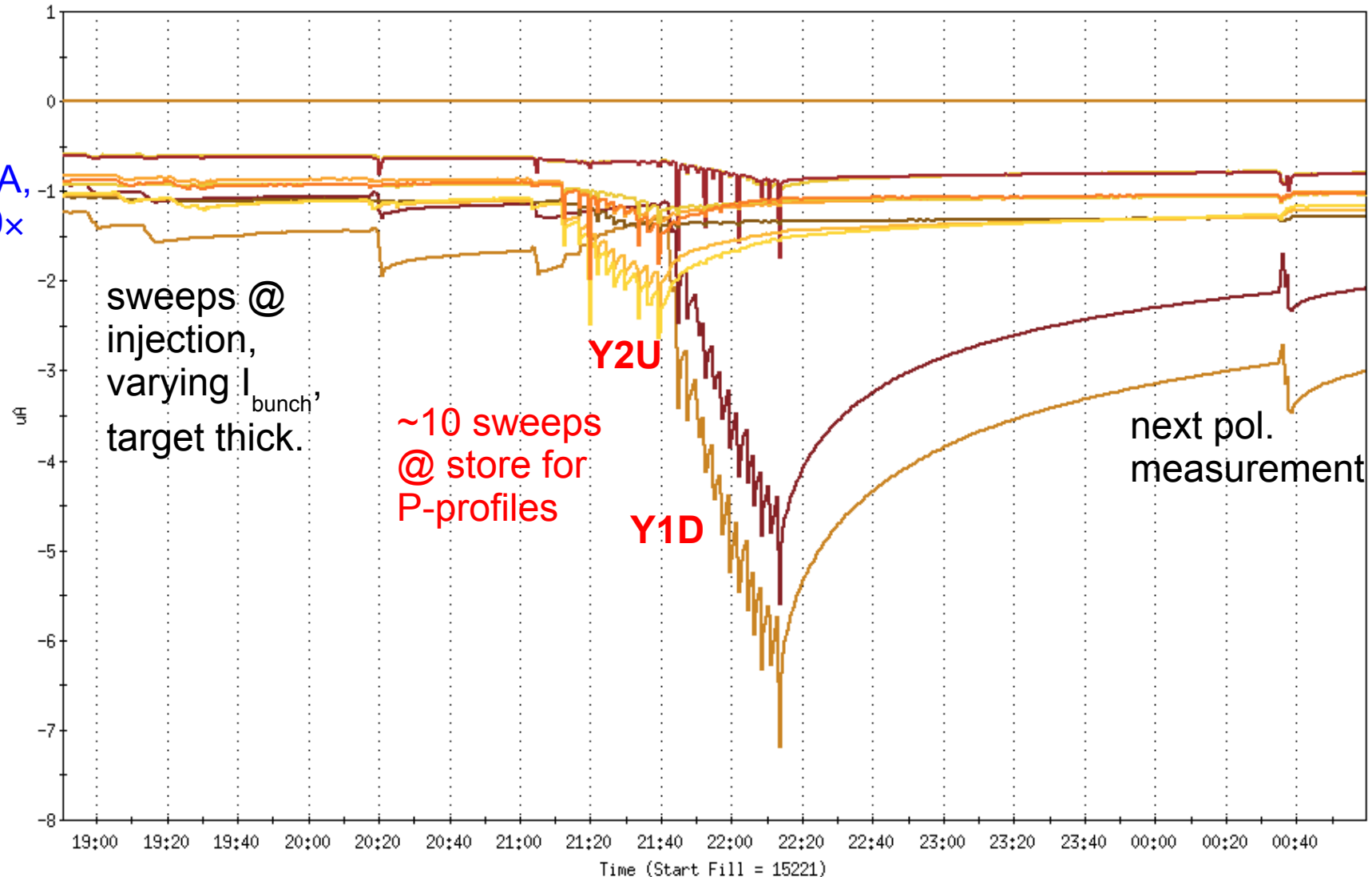


Target operation \leftrightarrow Bias currents

- Crystal clear demonstration: I_{bias} increases w/ target operation
- APEX studies 23.02.11:

RHIC Polarimeter Detector Current



yo12-pol3.1-det1.i:currentM	yo12-pol3.1-det2.i:currentM	yo12-pol3.1-det3.i:currentM	yo12-pol3.1-det4.i:currentM
yo12-pol3.1-det5.i:currentM	yo12-pol3.1-det6.i:currentM	yo12-pol3.2-det1.i:currentM	yo12-pol3.2-det2.i:currentM
yo12-pol3.2-det3.i:currentM	yo12-pol3.2-det4.i:currentM	yo12-pol3.2-det5.i:currentM	yo12-pol3.2-det6.i:currentM

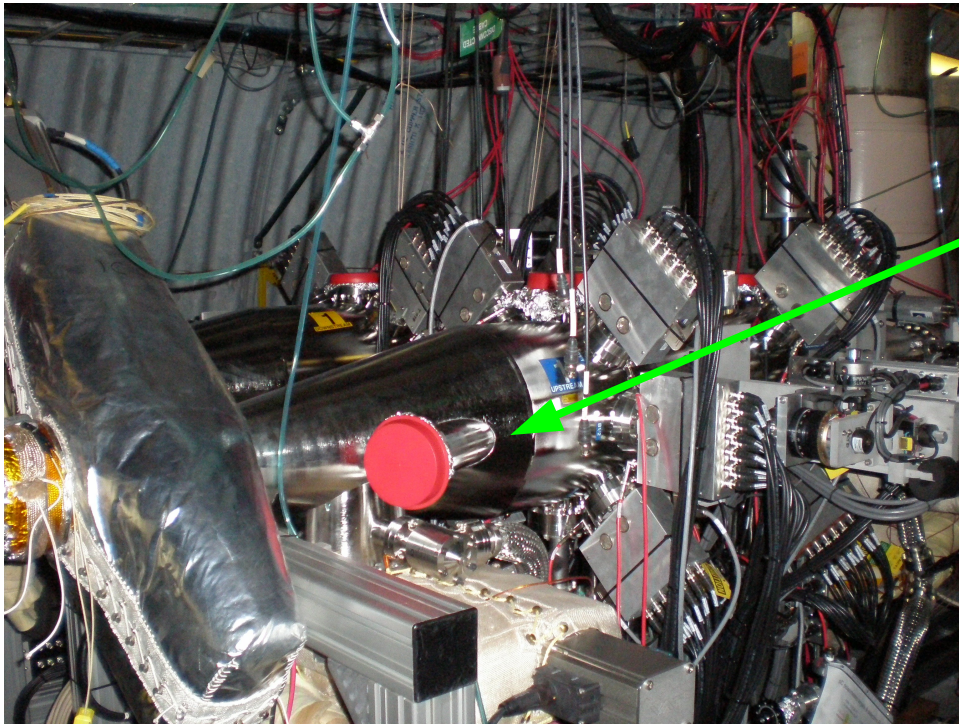
Beam induced EM Pulse

- Tuesday AM I looked on scope; for BD2 and YU2 saw ~same pattern of detectors with large, medium, small or negligible EMPs that Grigor saw last week:

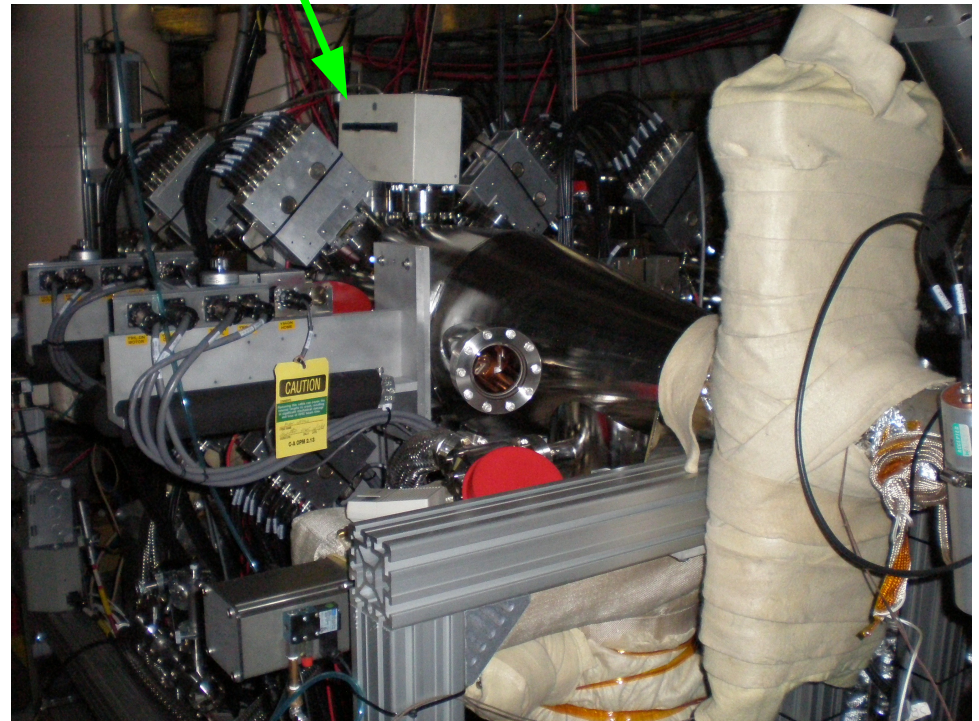
	det1		det2		det3		det4		det5		det6	
	Tr. Out	Tr. In	Tr. Out	Tr. In	Tr. Out	Tr. In	Tr. Out	Tr. In	Tr. Out	Tr. In	Tr. Out	Tr. In
Y1	<5	<5	<5	<5	<5	<5	20	20	5	5	15	15
Y2	60	60	5	5	5	5	<5	<5	<5	<5	5	5
B1	20	20	5	5	5	5	30	30	20	20	10	10
B2	<5	<5	5	5	10	10	20	20	5	5	10	10

- We can visually inspect chamber→detector port for det. 4,5,6:

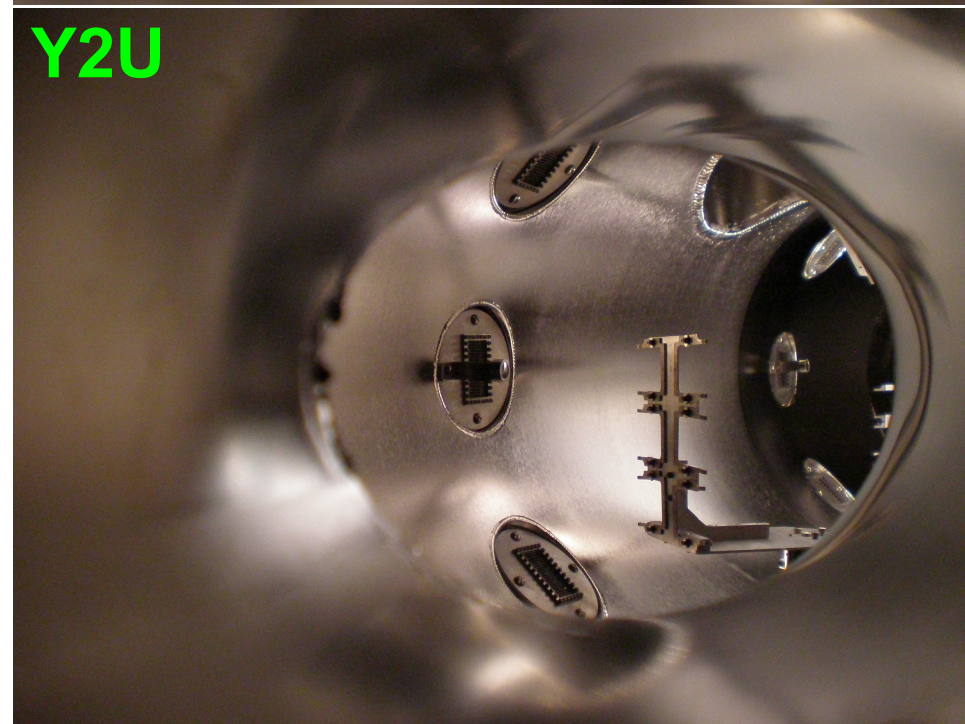
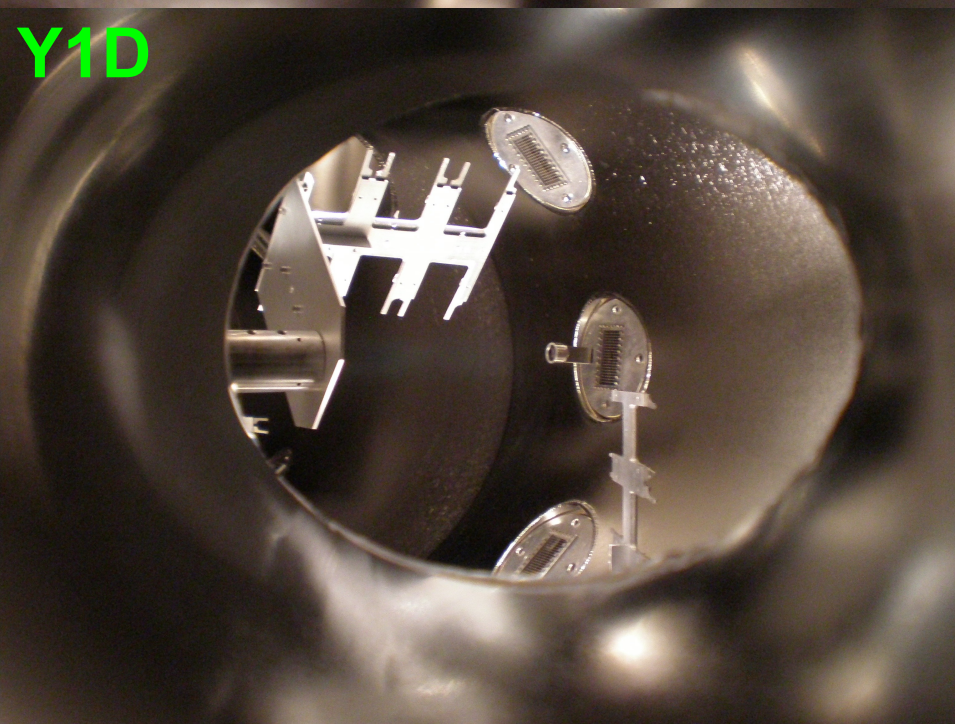
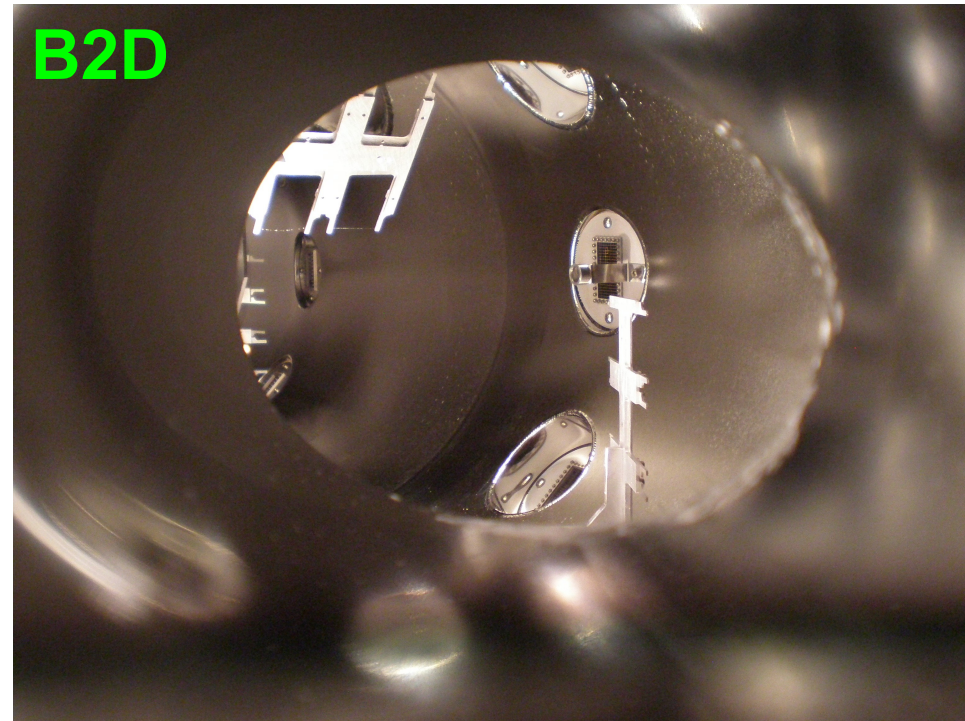
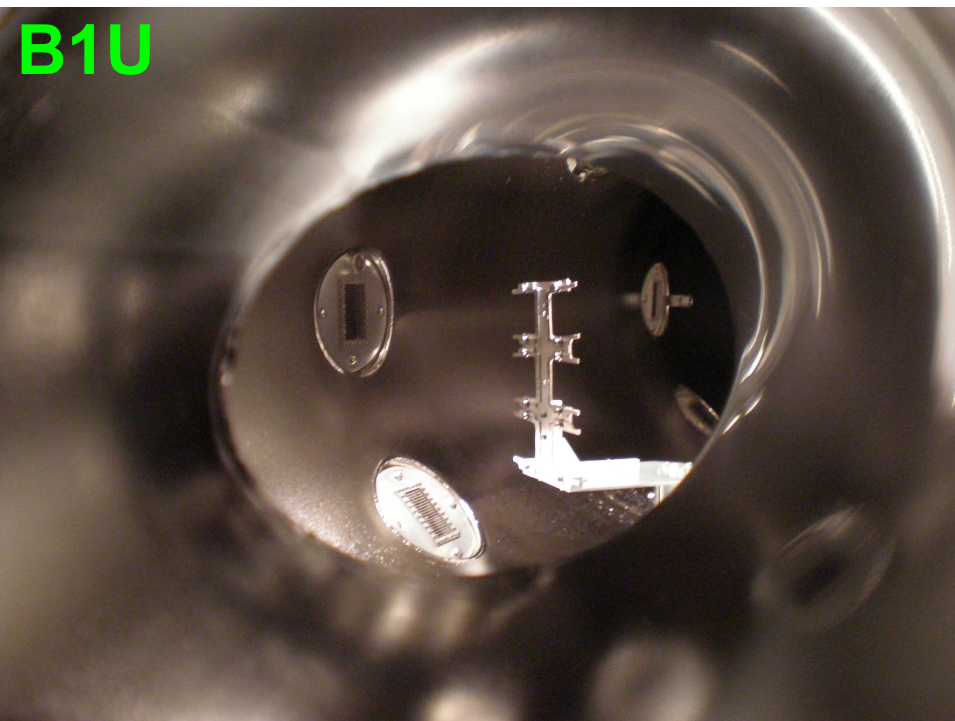
Detector ports



- Dets. 4,5,6 visible through 30° port window
- Illuminate with light in vertical port window (except Y2U, PMTs)

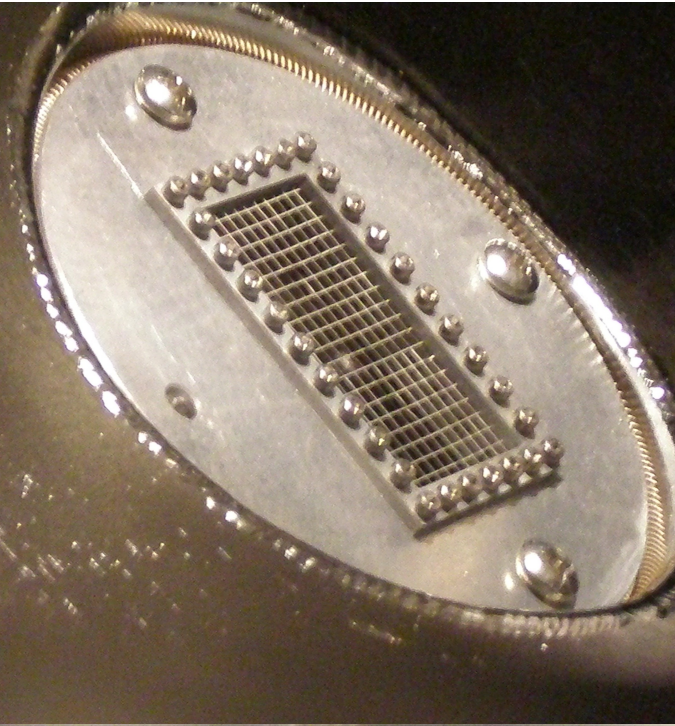


Detector ports thru 30° port window

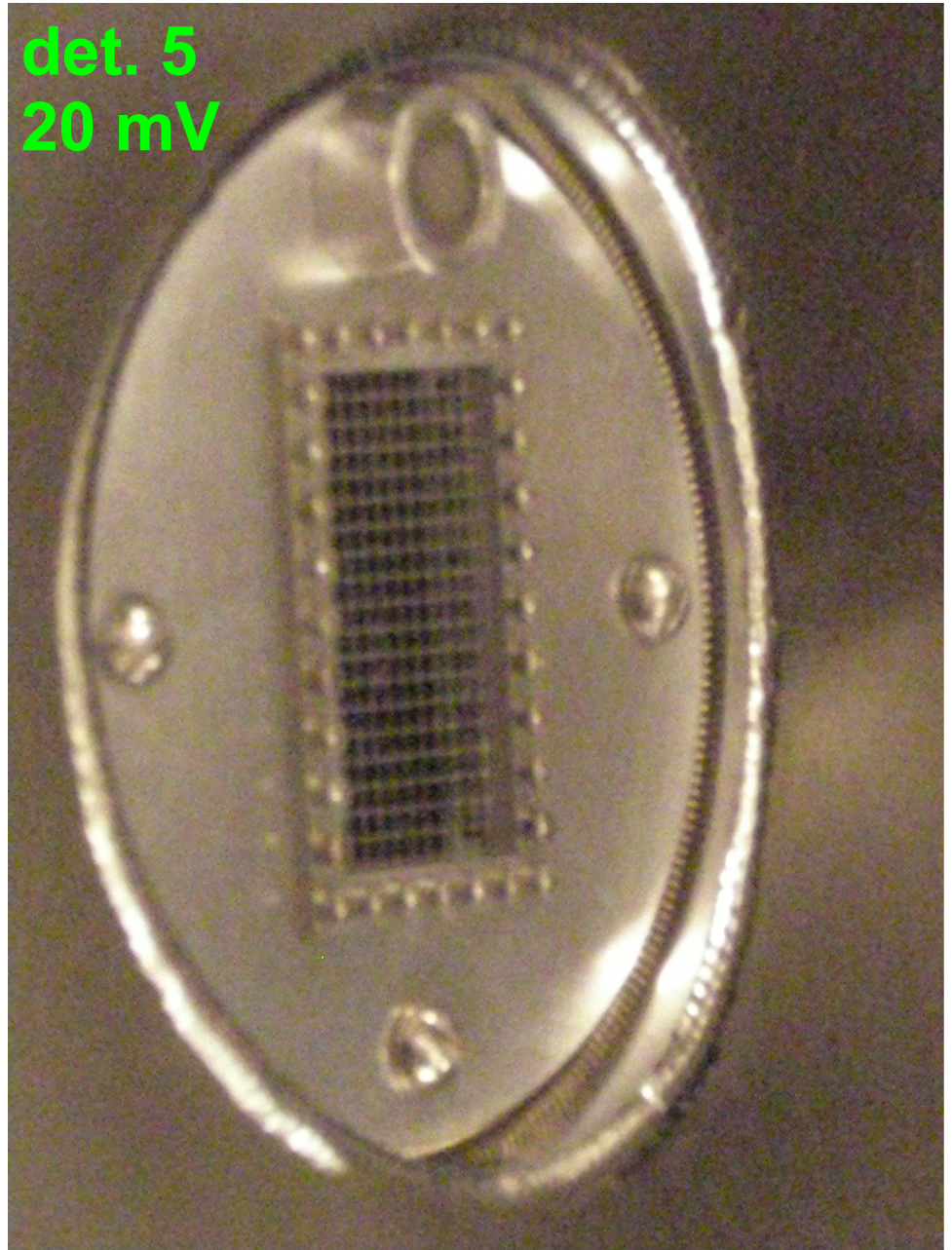


Detector ports: B1U

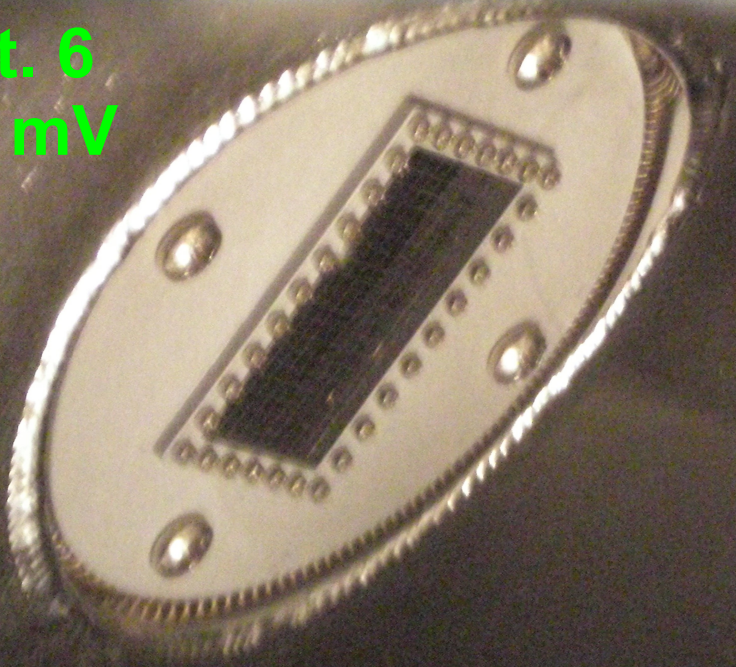
det. 4
30 mV



det. 5
20 mV

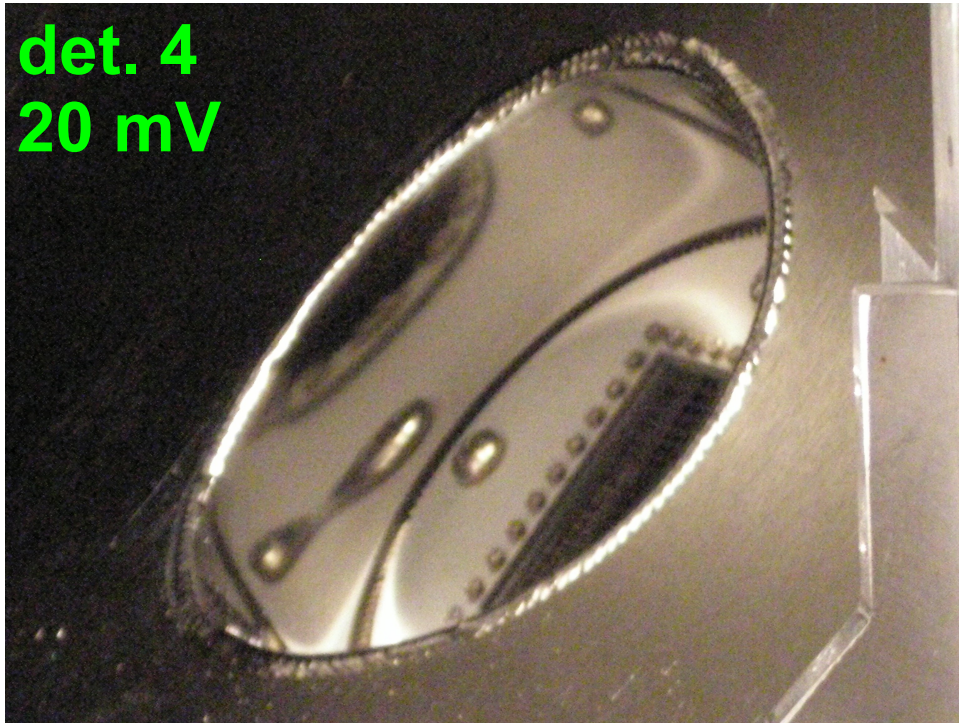


det. 6
10 mV



Detector ports: B2D

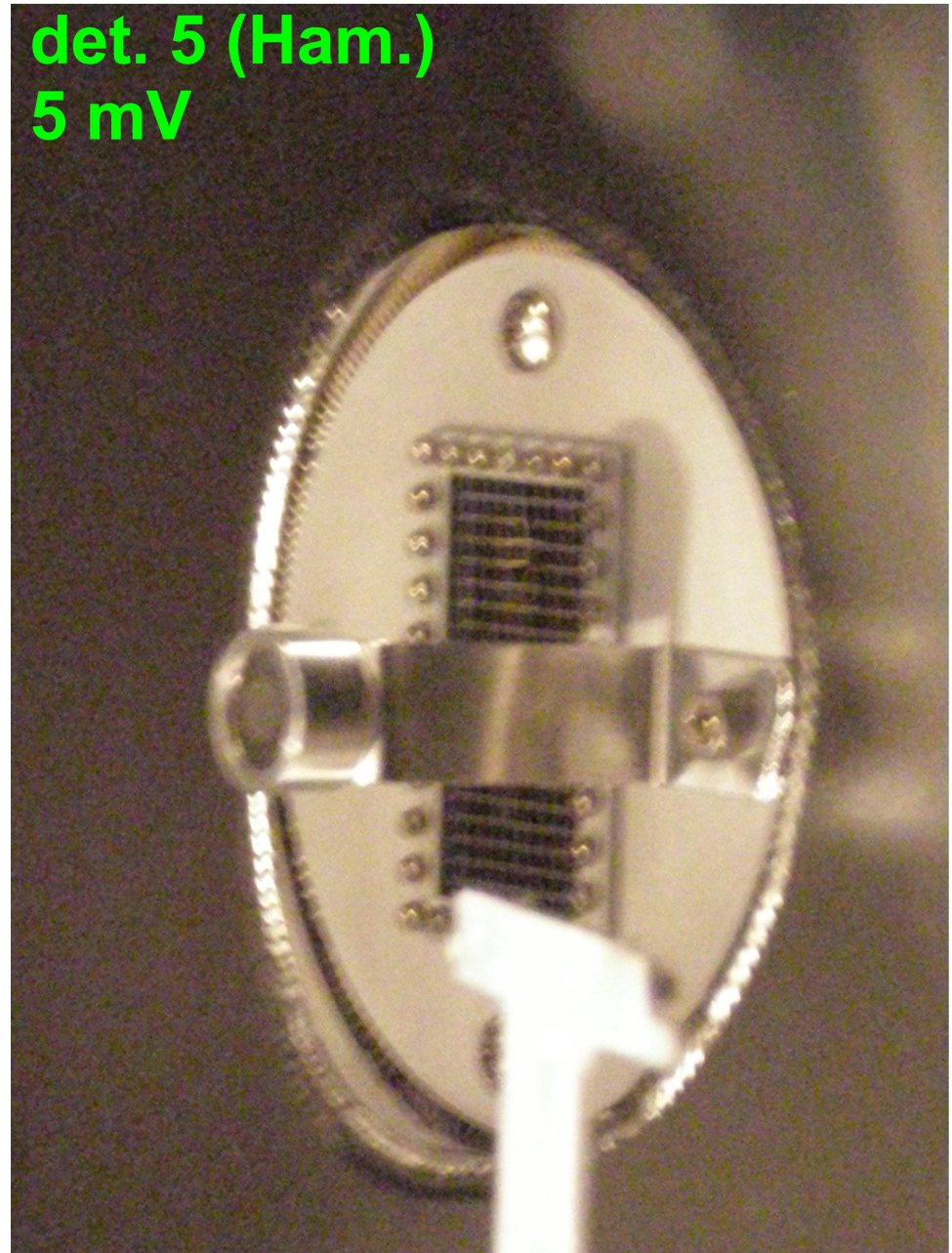
det. 4
20 mV



det. 6
10 mV

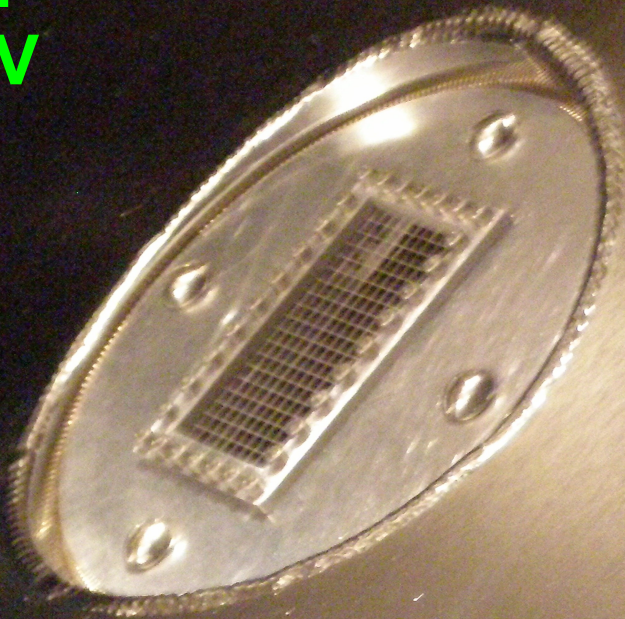


det. 5 (Ham.)
5 mV

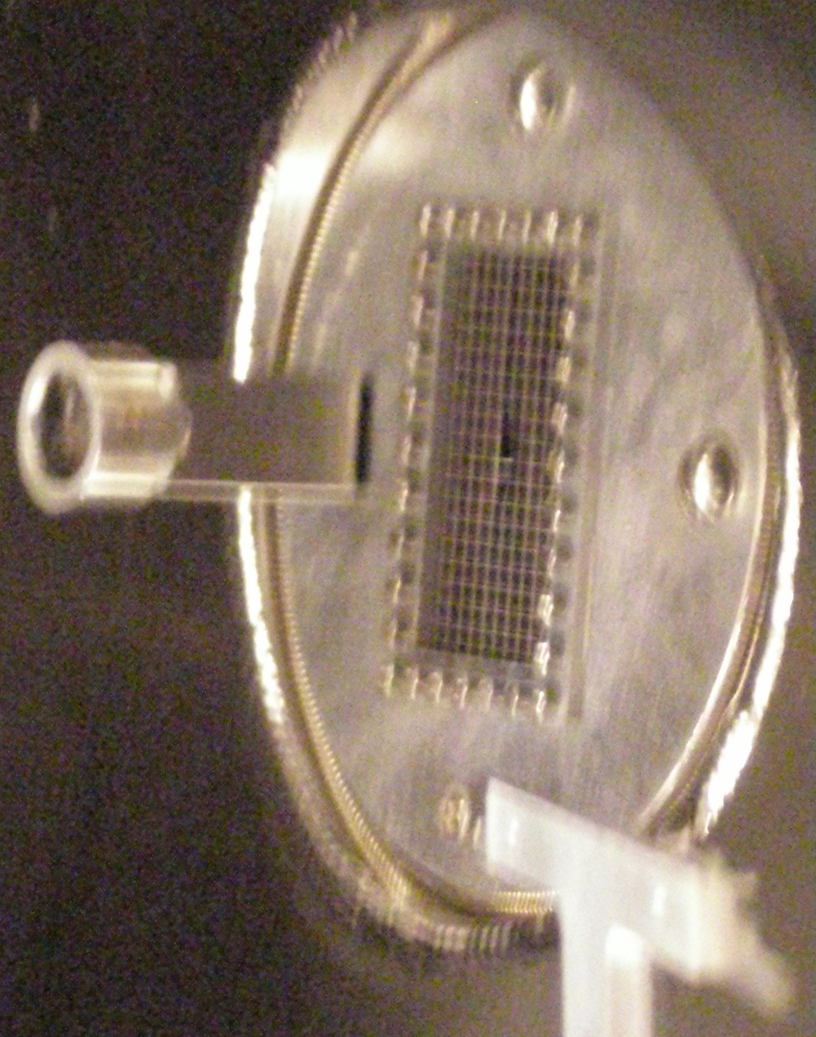


Detector ports: Y1D

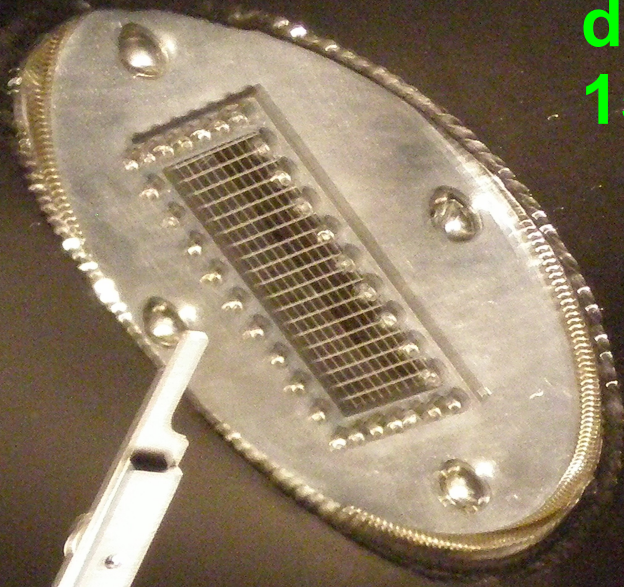
det. 4
20 mV



det. 5 (Ham.)
5 mV

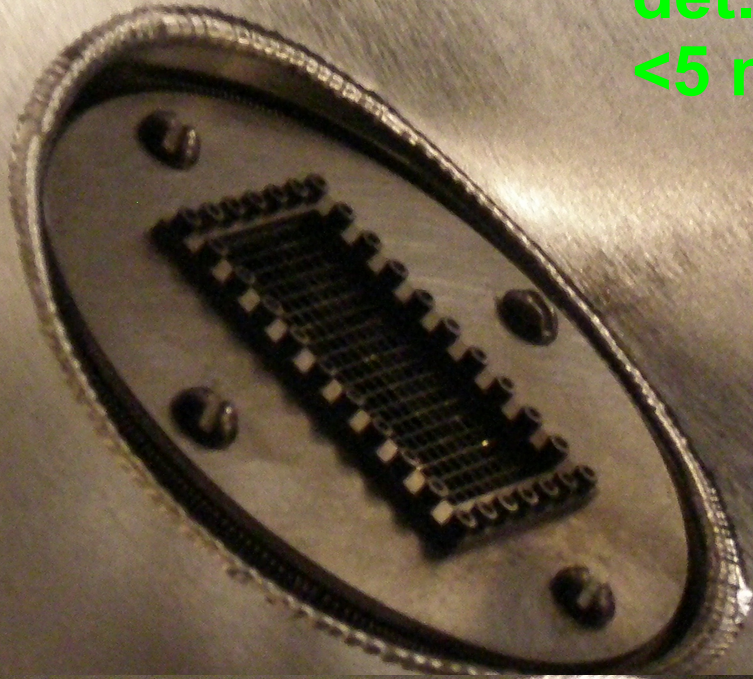


det. 6
15 mV

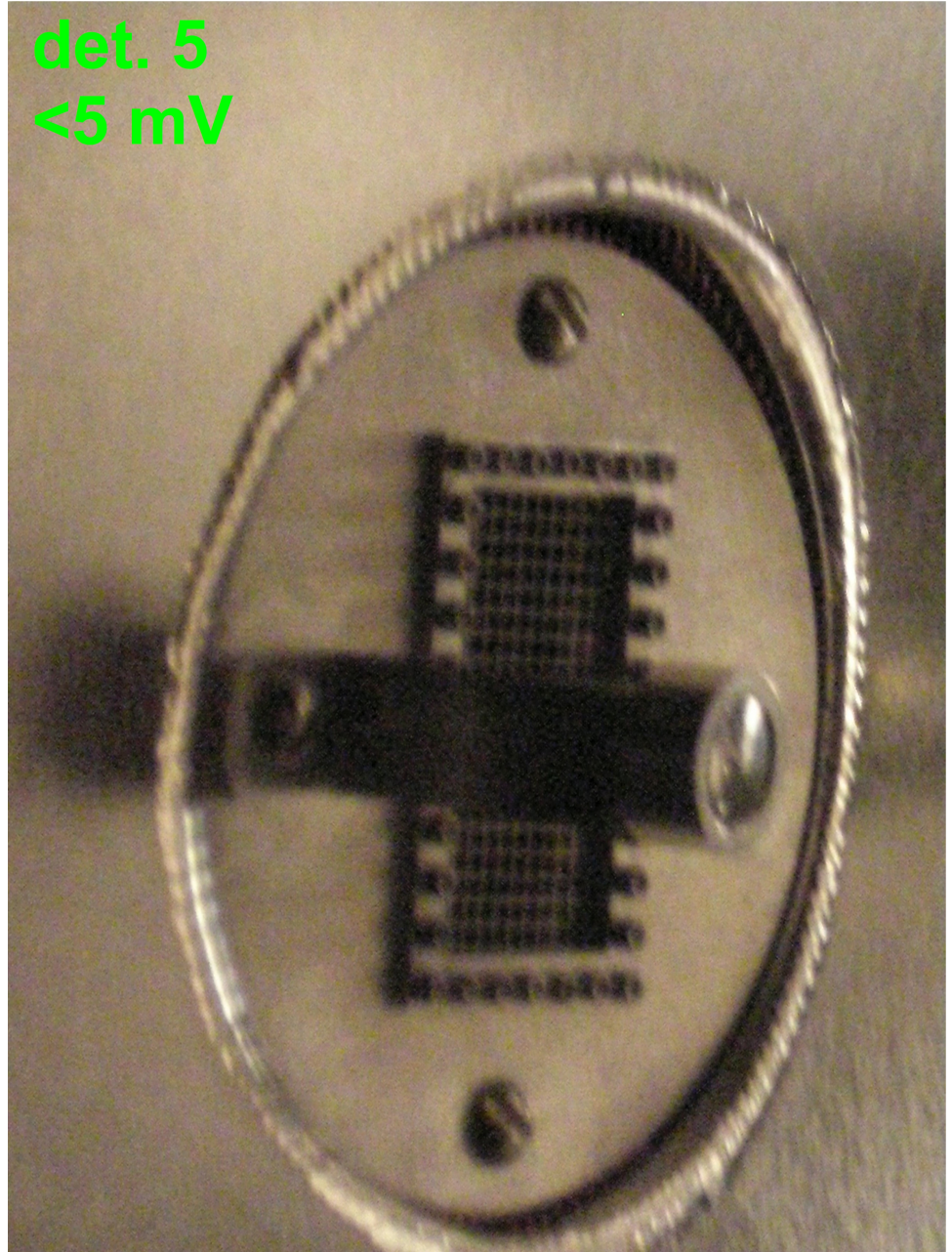


Detector ports: Y2U

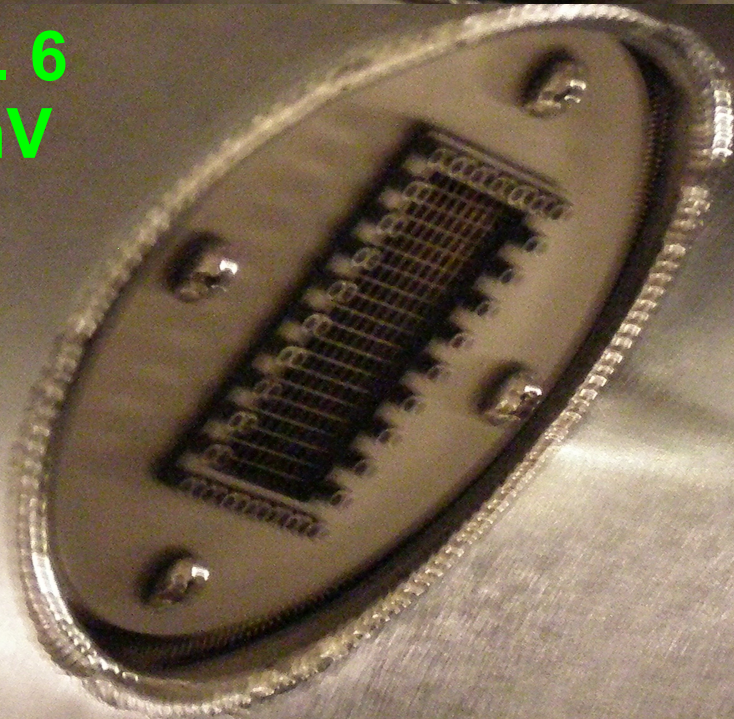
det. 4
<5 mV



det. 5
<5 mV



det. 6
5 mV



Beam induced EM Pulse

- To my eye, no correlation: target port \Leftrightarrow EMP amplitude

EXTRAS

